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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,419	10/15/2007	Alain H. Curaudeau	249692001700	8347
	7590 01/05/200 FOERSTER LLP	EXAMINER		
12531 HIGH BLUFF DRIVE SUITE 100 SAN DIEGO, CA 92130-2040			JAGOE, DONNA A	
			ART UNIT	PAPER NUMBER
			1614	
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			01/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/588,419	CURAUDEAU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Donna Jagoe	1614					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on <u>17 Oct</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro						
Disposition of Claims							
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on is/are: a) ☐ access Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the corrections.	r election requirement. r. epted or b)⊡ objected to by the B drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
11)☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/27/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte					

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of the photosensitizer, lemuteporfin in the reply filed on October 17, 2008 is acknowledged. Claims 1-19 read on the elected species.

Examination of the present claims was performed herein to the extent that the claims read upon the use of the elected compound lemuteporfin for the elected method. A reasonable comprehensive search by the Examiner has determined that the use of such a compound for treatment of hyperactive sebaceous gland disorders, such as acne does not appear to be taught or suggested by the prior art before the priority date of February 6, 2004.

For these reasons, the search and examination of the present claims has been extended to read upon the treatment of hyperactive sebaceous gland disorders with the photosensitizer, verteporfin. This corresponds to instant claims 1-19 of the present invention.

Claims 1-19 are pending in this application.

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Canada on February 6, 2004. It is noted, however, that applicant has

not filed a certified copy of the CA 2,457,214 application as required by 35 U.S.C. 119(b). The certified copy of CA 2,470,403 with the priority date of June 9, 2004 has been filed in the Application.

Information Disclosure Statement

The information disclosure statement filed October 27, 2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-7, 14, 15, 18 and 19 are rejected under 35 U.S.C. 102(a) as being anticipated by Candela Corporation WO 2003/086460 A2.

Candela Corp. teaches a method of treating acne, oily skin and sebaceous hyperplasia (pages 16-17, paragraph 55) comprising topical application of by photodynamic activation of photosensitizers in the skin region affected by the conditions (paragraph 1). Regarding the topical application of hydrophobic and/or lipophilic

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photosensitizer compositions to the skin, Candela Corp. teaches examples of the photosensitizer mixed in a liposome formulation (see example 6, paragraph 72) and in olive oil (example 15 paragraph 84). Liposome formulations are lipophilic and olive oil is hydrophobic. Examples of photosensitizers include 5-aminolevulinic acid (ALA) (paragraph 2-3) and Photosensitizers useful in the practice of the invention include, for example, chlorins, cyanines, purpurins and porphyrins, for example, benzoporphyrin derivative monoacid (BPD-MA) (also known as verteporfin (paragraph 77)). Other useful photosensitizers include, for example, bacteriochlorins and bacteriopurpurins, such as those described in U. S. Patent No. 6,376, 483 B1, for example 5,10octaethylbacteriopurpurin, and 5,15-octaethylbacteriopurpurin, or nickel 5, 10-bisacrylate etioporphyrin 1. Other useful photosensitizers include xanthenes, for example, rose bengal, or other photosensitizers that may be isolated or derived from natural sources, or synthesized de novo. (page 8, paragraph 25). Energy sources are applied a t a wavelength capable of activating the photosensitizer (paragraphs 41-47). The compositions are administered topically (paragraph 32). The treatment includes removal of keratotic layers by application of a descaling agent, e.g. salicylic acid or by administration of a drug, for example a topical drug to the lesion (paragraph 56). Suitable light sources include a pulsed diode laser (addressing instant claim 18) (paragraph 40-41). Candela Corp. teaches that both red and blue light have been used in ALA photodynamic therapy (paragraphs 3 and 5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 8-13 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Candela Corporation WO 2003/086460 A2 as applied to claims 1-7,

14, 15, 18 and 19 above, and further in view of Olive Oil Chemistry (U) Bershad U.S. Patent No. 6,096,765.

Candela Corp. teaches a method of treating acne, oily skin and sebaceous hyperplasia (pages 16-17, paragraph 55) comprising topical application of by photodynamic activation of photosensitizers in the skin region affected by the conditions (paragraph 1). Regarding the topical application of hydrophobic and/or lipophilic photosensitizer compositions to the skin, Candela Corp. teaches examples of the photosensitizer mixed in a liposome formulation (see example 6, paragraph 72) and in olive oil (example 15 paragraph 84). Liposome formulations are lipophilic and olive oil is hydrophobic. Examples of photosensitizers include 5-aminolevulinic acid (ALA) (paragraph 2-3) and Photosensitizers useful in the practice of the invention include, for example, chlorins, cvanines, purpurins and porphyrins, for example, benzoporphyrin derivative monoacid (BPD-MA) (also known as verteporfin (paragraph 77)). Other useful photosensitizers include, for example, bacteriochlorins and bacteriopurpurins, such as those described in U. S. Patent No. 6,376, 483 B1, for example 5,10octaethylbacteriopurpurin, and 5,15-octaethylbacteriopurpurin, or nickel 5, 10-bisacrylate etioporphyrin 1. Other useful photosensitizers include xanthenes, for example, rose bengal, or other photosensitizers that may be isolated or derived from natural sources, or synthesized de novo. (page 8, paragraph 25). Energy sources are applied a t a wavelength capable of activating the photosensitizer (paragraphs 41-47). The compositions are administered topically (paragraph 32). The treatment includes removal of keratotic layers by application of a descaling agent, e.g. salicylic acid or by

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administration of a drug, for example a topical drug to the lesion (paragraph 56).

Suitable light sources include a pulsed diode laser (addressing instant claim 18)

(paragraph 40-41). Candela Corp. teaches that both red and blue light have been used in ALA photodynamic therapy (paragraphs 3 and 5).

Regarding the viscosity, Candela Corporation does not teach a specific viscosity, however, for example, when combined with olive oil the viscosity would be 84 centipoise (cP) and 20°C which is encompassed in the claimed range of 50 to 50,000 cps.

Regarding the viscosity of olive oil, the following information is relied on for support of the viscosity of olive oil. See OliveOilSource/Olive Chemistry (U).

Density or Specific Gravity:	0.9150-0.9180 @ 15.5°	
	C	
Viscosity:	84 mPa.s (84 cP) at 20	
	Degrees Celsius	
Specific Heat:	2.0 J/(g.)(Degree	
	Celsius)	
	or .47Btu/(lb.)(°F)	
Thermal Conductivity:	@ 20 degrees Celsius	
	- 0.17	
Dielectric constant, e, @ 20°C	3.1	
Density@ 20 Degrees	920 kg/m^3	
Celsius:	or 7.8 lbs/U.S. Gal	
Volumetric Heat Capacity @ 20 Degrees Celsius:	$1.650\ 10^6\ J/m^3$	
Thermal Diffusivity @ 20	$10 \times 10^{-8} \text{ m}^2/\text{s}$	
Degrees Celsius:		
Boiling Point:	570 degrees	
Calories per tablespoon olive	Fahrenheit	
oil:	about 120 calories	

Regarding the removal of the excess photosensitizer, Candela Corp. teaches that the excess emulsion is removed from the lesion surface (paragraph 70). See also the examples wherein the excess emulsion is removed. Regarding the method wherein

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the treatment steps are repeated at least once every six months, at least once every 3 months, and repeated in intervals of not less than 5 days. Candela Corp. teaches that the procedure can be repeated as necessary (see example 18 paragraph 87). Regarding the topical application of other agents, such as topical retinoids, Candela Corp teaches additional treatment with topical salicylic acid or another topical drug for descaling the lesion (paragraph 56). It does not teach topical retinoids. Bershad teaches treatment of acne with topically applied retinoid compositions (see abstract). It is prima facie obvious to substitute equivalents, motivated by the reasonable expectation that the respective species will behave in a comparable manner or give comparable results in comparable circumstances. *In re Ruff* 118 USPQ 343; *In re Jezel* 158 USPQ 99; the express suggestion to substitute one equivalent for another need not be present to render the substitution obvious. In re Font, 213 USPQ 532. Candela Corp. showed the method of treatment of PDT with porphyin agents such as verteporfin for acne and additionally topical salicylic acid. Therefore, it would have been obvious to one of ordinary skill in the art to substitute the salicylic acid taught in Candela Corp. for the topical retinoids of Bershad for the predictable result of descaling the acne lesions.

Thus the claims fail to patentably distinguish over the state of the art as represented by the cited references.

Accordingly, for the above reasons, the claims are deemed properly rejected and none are allowed.

Correspondence

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donna Jagoe whose telephone number is (571) 272-0576. The examiner can normally be reached on Monday through Friday from 8:00 A.M. - 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Donna Jagoe /D. J./ Examiner Art Unit 1614

December 30, 2008

/Ardin Marschel/

Supervisory Patent Examiner, Art Unit 1614

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